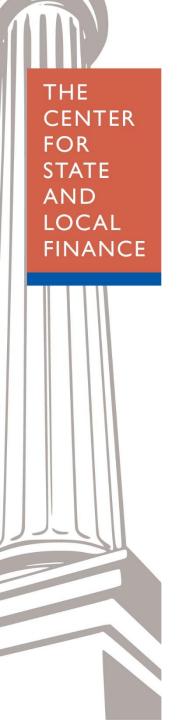


Dr. Peter Bluestone

Economic Impact of Start-up Charter Schools in Georgia







Economic Impact Study Research Questions

The State Charter Schools Commission of Georgia commissioned Georgia State University Center for State and Local Finance to research the following questions.

Do charter schools provide economic benefits to:

- Students who attend them?
- Communities they serve?
- Georgia?





Structure of Research

- Report 1: Broad review of the existing literature on the economic impacts of charter schools, including academic achievement
- Report 2: Economic impact of start-up charter schools on the communities they serve through changes to property values
- Report 3: Economic impact that start-up charter schools have on students' academic milestones





Report 1: Review of the Literature

Researchers reviewed literature available nationally to glean common findings among researchers.

Results:

- Tests scores most studied mixed results
 - Achievement across multiple schools have found no, small positive, or even small negative effects of charter school enrollment.
- Student achievement improves as charter schools mature
- Studies also have documented student achievement gains in urban charter schools that employ an education model known as No Excuses
- Recent literature provides evidence that charter schools have been able to improve student life outcomes, including high school graduation rates and earnings





Report 2: Economic Impact That Charter Schools Have On Property Values

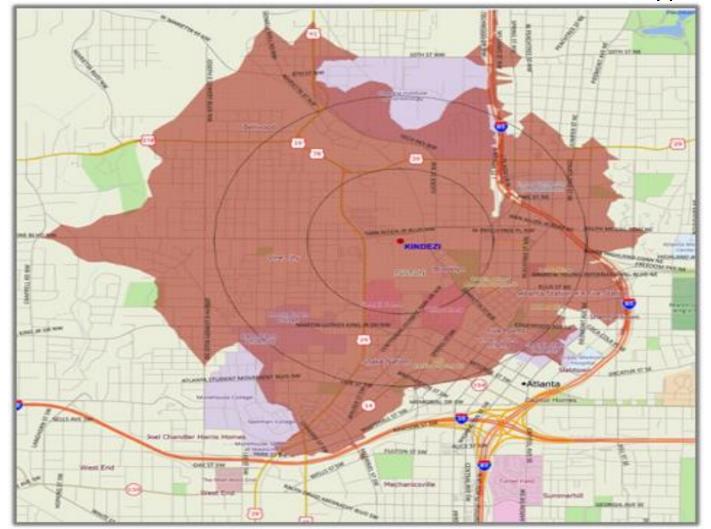
Researchers analyzed the variation in sales prices of houses in different attendance zones, as well as the variation in house values based on the distance from the charter schools. Where appropriate, the researchers also analyzed the differences in house prices before and after the opening of a start-up charter school. The majority of the 52 schools examined are located in large suburbs and cities, with 28 located in metro Atlanta.

- Data: Rich data set that includes over 1 million home sales from 2004-2013
- Sales include 15 school districts and 52 start-up charter schools
- Study relies on a fixed effects design to control for unobserved neighborhood effects





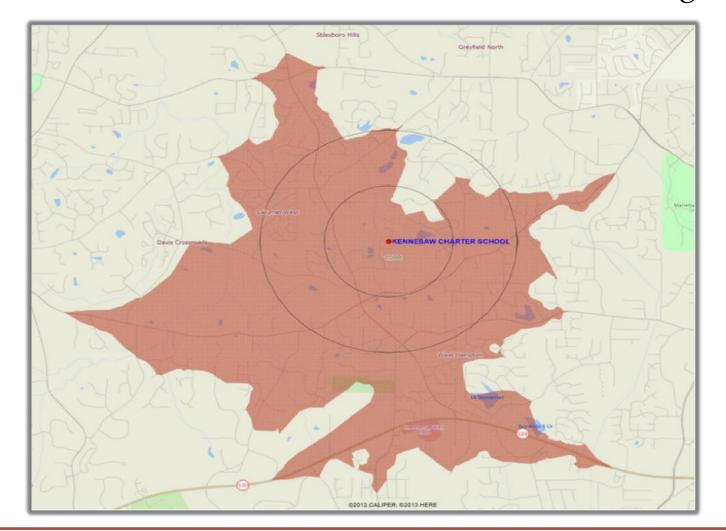
Report 2: Five-minute Drive Time Distance in an Atlanta Urban Area and Half-mile and One-mile Rings







Report 2: Five-minute Drive Time Distance Suburban Atlanta Area and Half-mile and One-mile Rings







Report 2: Results

	Atlanta City Start-Up Priority Zone Only	Atlanta City Start-Up Non-Priority Zone Only	Atlanta Suburb Start- Up Non- Priority Zone Only
Concentric Ring Distance			
Within 0.3mi v 0.3mi-0.6mi	0.0816**	0.0193	NA
Within 0.5mi v 0.5mi-1mi	0.0802***	-0.0909*	0.0423***
Within 0.7mi v 0.7mi-1.4mi	0.0112	-0.0692*	0.0601***
Within 0.9mi v 0.9mi-1.8mi	NA	NA	0.0263**

^{***} p<0.01, ** p<0.05, * p<0.1

Source: CoreLogic home sales 2004-13 and authors' calculations





Report 2: Results Summary

- In the city of Atlanta, priority-zoned charter schools increased property values by 8.2 percent within a 0.3-mile radius, with the average home expected to sell for \$11,846 more than the same home 0.3 - 0.6 miles away.
- In the Atlanta suburbs, non-priority charter schools increased property values by 4.2 percent within a half-mile radius, with the average home expected to sell for \$5,888 more than the same home located a half mile to one mile away.
- Source: CoreLogic home sales 2004-13 and authors' calculations





Report 3: Start-up Charter School Impact on Academic Milestones and Lifelong Success

- The report uses Georgia's Academic and Workforce Analysis and Research Data System, or GA AWARDS, information to analyze whether there is a causal relationship between attending a Georgia start-up charter school as a ninth-grader and achieving critical academic milestones often linked to future labor market success.
- The study compares start-up charter school students with those who previously attended a start-up charter school but switched to a traditional public school in ninth grade.





Report 3: Student Counts & Milestone Attainment Dates

School Year	8th Grade Cohorts* Start-Up Charter	_	Bachelor's Spring/Wages Summer**
2006-2007	835	2011	2015
2007-2008	1,337	2012	2016
2008-2009	1,473	2013	2017
2009-2010	2,425	2014	2018
2010-2011	2,084	2015	2019
2011-2012	3,339	2016	2020

^{*} Non-duplicated student count of 8th grade students.

Source: GA•AWARDS Data





^{**8}th grader completing high school and a bachelor's degree in eight years could start working with a four-year degree the summer of this year.

Report 3: Treatment and Control Cohorts and Milestones Attained

8th Grade Cohort	Control*	Treatment**	High School Grad. 5 yrs.**	2 Cons. Sem. Coll. 7 Yrs.**
2007	694	141	65%	57%
2008	1,223	114	62%	53%
2009	1,263	210	69%	57%
2010	1,976	449	56%	45%
2011	1,372	712	70%	52%
2012	2,267	1,072	56%	NA

^{*}Control are 8th grade start-up charter school students that go on to attend a traditional public school or conversion charter school for 9th grade.

^{**}Treatment are 8th grade start-up charter school students that go on to attend a start-up charter high school for 9th grade.





Summary Statistics for Treatment and Control Cohorts

	Treatment and Control			Standardized Percent		
	Means after Matching			Difference in Means**		
	Treatment	nent Control		After	Before	
8th Grade Means	Cohort	Cohort		Matching	Matching	
Math Score	792.29	779.70		0.08%	10%	
Percent Free						
Lunch	0.61	0.54		-0.32%	14%	
Percent Gifted	0.03	0.11		0.00%	-31%	
Percent Black	0.47	0.53		0.32%	-12%	
Percent Hispanic	0.03	0.07		-1.43%	-20%	
Percent White	0.45	0.34		0.08%	23%	

Other Matching Criteria: English Score, Reading Score, Percent Limited English Proficient

^{**}Standardized percent difference takes into account the standard deviation of the means. Source: GA•AWARDS data and author's calculations





Report 3: Results

VARIABLES	High School Diploma	College Ever	College Persist.	College Degree or Certificate
Start-up Charter Ninth Grade	0.0421***	0.0582***	0.0756***	0.0229*
	(0.0148)	(0.0191)	(0.0236)	(0.0125)
Observations	5,072	3,024	1,692	1,692

Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

Source: GA•AWARDS data and author's calculations





Report 3: Results Summary

Comparing the two groups of students, the results show start-up charter school pupils were:

- 4 percentage points more likely to graduate from high school
- 6 percentage points more likely to enroll in college
- 8 percentage points more likely to persist in college for two consecutive semesters
- 2 percentage points more likely to earn a college degree or certificate

Source: GA•AWARDS data and author's calculations





Summary: Average Economic Benefits for Communities and Students Served by Start-up Charter Schools

Economic Impact of Start-up Charter Schools

Atlanta Homes Priority Zone \$11,846

Atlanta Homes Non-Priority Zone \$5,888

Wage premium relative to no high school diploma per year

High School Diploma \$9,000

Associate's Degree \$13,650

• Bachelor's Degree \$30,650

Other benefits to State and Local Governments

- Higher wages lead to lower spending on public assistance programs
- Higher educational attainment lead to lower rates of incarceration





Thank you!

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Check out our research at <u>cslf.gsu.edu</u> or on social media



